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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/052,222	01/18/2002	Karl-Heinz Restle	6566 2171 EXAMINER	
7	590 09/22/2005			
Patrick J. O'Shea			JAWORSKI, FRANCIS J	
O'Shea, Getz & Kosakowski. P.C. 1500 Main Street Ste 912 Springfield, MA 01115			ART UNIT	PAPER NUMBER
			3737	
			DATE MAILED: 09/22/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/052,222	RESTLE ET AL.			
Office Action Summary	Examiner	Art Unit			
	Jaworski Francis J.	3737			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONED	l. ely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) ☐ Responsive to communication(s) filed on 30 Ju 2a) ☐ This action is FINAL. 2b) ☐ This 3) ☐ Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1 and 3-16 is/are pending in the appli 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1 and 3-16 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	vn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the Editable of the Editable of the drawing(s) be held in abeyance. See it is required if the drawing(s) is object to be a second or the drawing(s).	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal P 6) Other:	(PTO-413) ate latent Application (PTO-152)			

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1, 3-16 as amended are rejected under 35 U.S.C. 103(a) as being unpatentable over Acker et al(US6508774) in view of Grandia et al (US5827204).

The former teaches a method and system for applying ultrasonic pressure waves outside the body towards target tissue, detecting and processing a received ultrasonic signal in relation to a threshold to determine if cavitation is present (col. 9 lines 9-64), and automatically controlling the ultrasonic pressure waves via a feedback control system based upon this processed signal (col. 10 lines 11-54). While an imaging function is not necessary, the method may be practiced at multiple focal points scanned

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during programmed treatment. Evaluation of regional obstructions and/or interfaces in the spatial anatomy may be accomplished by the bubble detection, see col. 12. Since the computations associated with cavitation evaluation and focal shift ultimately dictate the spatial distribution of the therapeutic energy by the pressure wave source this is tantamount to a spatial pressure field calculation. Since the detectors 64 of Acker et al act to produce an aggregate signal (col. 8, bottom), the aforementioned col. 9 thresholding discussion effectively pertains to a coincidence or cumulative multidetector effect. Whereas Acker et al discuss the high frequency ultrasound pressure wave application in relation to diathermy/ablation, it would have been obvious in view of Grandia et al (US5827204) to use cavitation feedback during high power target disintegration (calculus, etc.) by shock wave, see col. 1 lines 16-19, and by a discrete extracorporeal detector, see col. 6 line 61 – col. 7 line 25 since Grandia et al is acknowledged to to be a related predecessor work in Acker et al, see col. 2 lines 3-19. Grandia et al further teaches direct cavitation monitoring in col. 7 lines 17-25, and the actual value of cavitation controlled to limit the size of the destruction focal zone.

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Amendment of the claims to pertain to automatic cavitation-based feedback controls have mooted the previous rejection arguments however the Acker et al and closely related Grandia et al reveal the claimed features pertinent to automatic feedback controls.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication should be directed to Jaworski Francis J. at telephone number 571-272-4738..

FJJ:fjj

09152005

Francis J. Jaworski

Primary Éxaminer